## **CLAIMS**

1. A singlet telescope for reshaping the output of a laser, comprising:

a monolithic lens element having two spaced-apart surfaces said surfaces radiused in the same direction, wherein said radiused surfaces have the same length radius of curvature.

- 2. (cancelled)
- 3. (amended) The telescope of Claim 21, wherein the subject telescope is described by:

$$R_1 = \underline{Z(n-1)}$$

$$n(1-m)$$

where  $R_1$  is the radius of curvature of the input surface, Z refers to the length of the element, n is the index of refraction of the lens medium and m is the angular magnification.

- 4. (original) The telescope of Claim 1, wherein at least one of said surfaces includes an anti-reflective coating.
- 5. (original) The telescope of Claim 1, wherein said telescope is used to magnify the output of said laser, thus to present concave surfaces to the laser that generate focused retro-reflections and wherein the retro-reflections are focused close to said monolithic element away from said laser.

- 6. (original) The telescope of Claim 1, wherein under a predetermined magnification or inverse magnification the third-order aberrations associated with said singlet telescope are insignificant.
- 7. (original) The telescope of Claim 6, wherein said predetermined magnification is 2X.
- 8. (original) The telescope of Claim 1, wherein the material for said monolithic element is selected from the group consisting of ZnSe, ZnS, YAG, Ge and Si.
- 9. (original) A method for minimizing retro-reflective ghosts from a telescope used to reshape the output of a laser, comprising the step of:

using a singlet telescope to reshape the output of the laser.

- 10. (amended) The method of Claim 49, wherein the singlet telescope has only two reflective surfaces.
- 11. (amended) A method for controlling the diameter and position of a waist of a collimated light beam produced by a pump laser in a nonlinear crystal used by an optical parametric oscillator, comprising the step of:

interposing a singlet telescope between the pump laser and an end of the nonlinear crystal, wherein the singlet telescope includes a monolithic element having two spaced-

apart surfaces, the surfaces radiused in the same direction, and the radiused surfaces have the same length radius of curvature.

- 12. (cancelled)
- 13. (cancelled)
- 14. (amended) The method of Claim 1311, wherein the singlet telescope is described by described by:

$$R_1 = \underline{Z(n-1)}$$

$$n(1-m)$$

where  $R_1$  is the radius of curvature of the input surface, Z refers to the length of the element, n is the index of refraction of the lens medium and m is the angular magnification.